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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/912,227 07/24/2001		07/24/2001	Seppo Hamalainen	944-003.079	4331	
4955	7590	12/24/2003		EXAMINER		
WARE I	FRESSOL	A VAN DER SLUY	NGUYEN, BRIAN D			
	ISON, LLI		ART UNIT	PAPER NUMBER		
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•				DATE MAILED: 12/24/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Appli	Application No.		Applicant(s)					
	09/91	2,227	H	HAMALAINEN, SEPPO						
Office	Action Summary	Exam	iner	Ar	t Unit					
			D Nguyen		61					
The MAIL Period for Reply	ING DATE of this commu	ınıcatıon appears oı	the cover sheet v	with the corr	esponaence aa	aress				
THE MAILING C - Extensions of time n after SIX (6) MONTH - If the period for reply - If NO period for reply - Failure to reply with - Any reply received b	STATUTORY PERIOD ATE OF THIS COMMUI hay be available under the provision 45 from the mailing date of this corry specified above is less than thirdy is specified above, the maximum in the set or extended period for reply the Office later than three month adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). In Informatication. (30) days, a reply within the statutory period will apply a ply will, by statute, cause the	e statutory minimum of th nd will expire SIX (6) MC e application to become A	a reply be timely f nirty (30) days will DNTHS from the r ABANDONED (3	iled be considered timel nailing date of this of 5 U.S.C. § 133).					
1)⊠ Responsiv	ve to communication(s) f	iled on <u>the applicat</u>	on filed 7/24/01.							
2a) This action	n is FINAL .	2b)⊠ This action	s non-final.		÷					
	application is in condition					e merits is				
Disposition of Clai	ms									
5) ☐ Claim(s) _ 6) ☑ Claim(s) <u>1</u> 7) ☑ Claim(s) <u>5</u>	Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-4,7-14 and 17-20 is/are rejected. Claim(s) 5,6,15 and 16 is/are objected to. Claim(s) are subject to restriction and/or election requirement.									
Application Papers	s									
10)☐ The drawir Applicant n Replaceme	ication is objected to by ang(s) filed on is/ar any not request that any object drawing sheet(s) including declaration is objected	e: a) accepted of accepted of accepted of accepted of accepted of accepted of accepted on accepted of	(s) be held in abeya quired if the drawin	ance. See 37 ng(s) is object	CFR 1.85(a). ed to. See 37 Cl					
Priority under 35 U	.S.C. §§ 119 and 120									
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DETAILED ACTION

Specification

1. Abstract, lines 14-16, "Often, the second indication of the quality of the signal is either a changed SIR target value" is an incomplete sentence.

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Objections

2. Claims 7, 9, 17, and 19 are objected to because of the following informalities:

Claims 9 and 19, it is suggested to change "RNC" to ---radio network controller (RNC)---

Claims 7 and 17, "a mobile station" and "a base station" in line 2 seem to refer back to "a mobile station" and "a base station" in line 2. If this is true, it is suggested to change "a mobile station" and "a base station" to ---the mobile station--- and ---the base station---.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-3, 7-8, 10-13, 17-18, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Miya (6,163,705).

Regarding claims 1, 7-8, and 10, Miya discloses a method of deciding whether to perform link adaptation for communication from a first communication device to a second communication device, the second communication device examining a signal received from the first communication device (mobile, base) and providing a first indication (1105 of figure 11; col. 10, lines 2-50) of the quality of the signal as received by the second communication device, the method comprising the steps of: a) recording at least one first indication (1105) of the quality of the signal as received by the second communication device; b) providing a second indication (1107) of the quality of the signal based on the at least one first indication of the quality of the signal; and c) deciding to perform link adaptation based on the second indication of the quality of the signal (see col. 7, lines 41-48 where the speed is variable).

Regarding claim 2, Miya discloses the first indication is an SIR estimate (see 1105 of figure 11).

Regarding claim 3, Miya discloses the second indication is an SIR target value (see 1107).

Regarding claims 11-13, 17-18, and 20, claims 11-13, 17-18, and 20 are apparatus claims that have substantially all the limitations of the respective method claims 1-3 and 8. Therefore, they are subject to the same rejection.

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-4, 7-8, 10-14, 17-18, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Engstrom et al (6,639,934) in view of Sebastian (2003/0003920).

Regarding claims 1-3, 7-8, and 10, Engstrom discloses a method for a communication between a mobile and a base station comprising storing an SIR estimate, providing an SIR target value (see figure 5a; col. 4, line 59-col. 5, line 8). Engstrom does not specifically disclose performing link adaptation based on the second indication (SIR target value). However, Sebastian discloses that SIR can be used for link adaptation (see 0064). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use the SIR target for link adaptation as taught by Sebastian in the system of Engstrom so that the transmission rate can be changed based on the quality of signal to guarantee quality of service and improve system efficiency.

Regarding claim 4, Engstrom further discloses change the SIR target value and a predetermined maximum and minimum (thresholds) SIR target (see SIR target adjustment in figure 5a; col. 8, lines 1-12). Engstrom does not disclose some predetermined margin. However, to set a margin for the max and min targets is a matter of choice. Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to set a margin

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for max and min target values in order to guarantee the changing of target value will never exceed the target range.

Regarding claims 11-14, 17-18, and 20, claims 11-13, 17-18, and 20 are apparatus claims that have substantially all the limitations of the respective method claims 1-3 and 7-8. Therefore, they are subject to the same rejection.

Claims 9 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Engstrom et al (6,639,934) in view of Sebastian (2003/0003920) as applied to claims 1 and 11 above, and further in view of Knutsson et al (6,085,108).

Regarding claims 9 and 19, Engstrom in view of Sebastian do not specifically disclose an RNC performs on of more of the steps. However, to perform one or more of the steps in the mobile, base, or RNC is a matter of design choice. Knutsson discloses a RNC perform one or more of the steps (see col. 3, lines 4-21). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the RNC performs one or more of the steps as taught by Knutsson in the system of Engstrom in view of Sebastian in order to meet specific needs such as to minimize the size of a mobile unit..

Allowable Subject Matter

7. Claims 5-6 and 15-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian D Nguyen whose telephone number is (703) 305-5133. The examiner can normally be reached on 7:30-6:00 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Olms can be reached on (703) 305-4703. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

Brian Nguyen Art Unit 2661

12/18/03